This listing of claims replaces all prior versions and listings of claims in the application:

In The Claims:

1. (CURRENTLY AMENDED) A method for preparation of a compound of the following formula XVI, or salt thereof:

$$G$$
 A_1
 A_1

where

G is an aryl or heterocyclo group, where said group is mono- or polycyclic, and which is optionally substituted at one or more positions;

 Z_1 is O or S;

Z₂ is O or S:

A₁ is CR⁷;

 A_2 is CR^7 ;

- [$\stackrel{\checkmark}{Y}$] $\stackrel{\checkmark}{Y}$ is J-J'-J" where J is (CR⁷R^{7'})n and n = 0-3, J' is O, S, S=O, SO₂, NH, NR⁷, OP=QOR², OC=O, NR¹C=O, OP=ONHR², OSO₂, NHNH, NHNR⁶, NR⁶NH, or N=N, and J" is (CR⁷R^{7'})n and n = 0-3;
- Q₁ is H, alkyl or substituted alkyl, alkenyl or substituted alkenyl, cycloalkyl or substituted cycloalkyl, cycloalkenyl or substituted cycloalkenyl, heterocycloalkyl or substituted heterocycloalkyl, arylalkyl or substituted arylalkyl, alkynyl or substituted alkynyl, aryl or substituted aryl, heterocyclo or substituted heterocyclo, halo, CN, R¹OC=O, R⁴C=O, R⁵R⁶NC=O, HOCRⁿRⁿ, nitro, R¹OCH₂, R¹O, NH₂, C=OSR¹, SO₂R¹ or NR⁴R⁵;
- Q₂ is H, alkyl or substituted alkyl, alkenyl or substituted alkenyl, cycloalkyl or substituted cycloalkyl, cycloalkenyl or substituted cycloalkenyl, heterocycloalkyl or substituted heterocycloalkyl, arylalkyl or substituted arylalkyl, alkynyl or substituted alkynyl, aryl or substituted aryl, heterocyclo or substituted heterocyclo, halo, CN, R¹OC=O, R⁴C=O, R⁵R⁶NC=O, HOCR⁶R⁶, nitro, R¹OCH₂, R¹O, NH₂, C=OSR¹, SO₂R¹ or NR⁴R⁶;

L is a bond, $(CR^7R^{7'})n$, NH, NR⁵ or NR⁵ $(CR^7R^{7'})n$, where n = 0-3;

R¹ and R¹′ are each independently H, alkyl or substituted alkyl, alkenyl or substituted alkenyl, alkynyl or substituted alkynyl, cycloalkyl or substituted cycloalkyl, cycloalkenyl or substituted

- cycloalkenyl, heterocyclo or substituted heterocyclo, cycloalkylalkyl or substituted cycloalkyalkyl, cycloalkenylalkyl or substituted cycloalkenylalkyl, heterocycloalkyl or substituted aryl, arylalkyl or substituted arylalkyl;
- R² is alkyl or substituted alkyl, alkenyl or substituted alkenyl, alkynyl or substituted alkynyl, cycloalkyl or substituted cycloalkyl, cycloalkenyl or substituted cycloalkenyl, heterocyclo or substituted heterocyclo, cycloalkylalkyl or substituted cycloalkylalkyl, cycloalkenylalkyl or substituted cycloalkylalkyl, heterocycloalkyl or substituted heterocycloalkyl, aryl or substituted aryl, arylalkyl or substituted arylalkyl;
- R⁴ is H, alkyl or substituted alkyl, alkenyl or substituted alkenyl, alkynyl or substituted alkynyl, cycloalkyl or substituted cycloalkyl, cycloalkenyl or substituted cycloalkenyl, heterocyclo or substituted heterocyclo, cycloalkylalkyl or substituted cycloalkylalkyl, cycloalkenylalkyl or substituted cycloalkylalkyl, aryl or substituted cycloalkenylalkyl, heterocycloalkyl or substituted heterocycloalkyl, aryl or substituted aryl, arylalkyl or substituted arylalkyl, R¹C=O, R¹NHC=O, SO₂OR¹, or SO₂NR¹R¹;
- R⁵ is alkyl or substituted alkyl, alkenyl or substituted alkenyl, alkynyl or substituted alkynyl, cycloalkyl or substituted cycloalkenyl, heterocyclo or substituted heterocyclo, cycloalkylalkyl or substituted cycloalkylalkyl, cycloalkenylalkyl or substituted cycloalkylalkyl, cycloalkenylalkyl or substituted heterocycloalkyl, aryl or substituted aryl, arylalkyl or substituted arylalkyl, R¹C=O, R¹NHC=O, SO₂R¹, SO₂OR¹, or SO₂NR¹R¹;
- R⁶ is alkyl or substituted alkyl, alkenyl or substituted alkenyl, alkynyl or substituted alkynyl, cycloalkyl or substituted cycloalkyl, cycloalkenyl or substituted cycloalkenyl, heterocyclo or substituted heterocyclo, cycloalkylalkyl or substituted cycloalkylalkyl, cycloalkenylalkyl or substituted cycloalkenylalkyl, heterocycloalkyl or substituted heterocycloalkyl, aryl or substituted aryl, arylalkyl or substituted arylalkyl, CN, OH, OR¹, R¹C=O, R¹NHC=O, SO₂R¹, SO₂OR¹, or SO₂NR¹R¹; and
- R⁷ and R⁷ are each independently H, alkyl or substituted alkyl, alkenyl or substituted alkenyl, alkynyl or substituted alkynyl, cycloalkyl or substituted cycloalkyl, cycloalkenyl or substituted cycloalkylalkyl or substituted cycloalkylalkyl, heterocyclo or substituted heterocyclo, cycloalkylalkyl or substituted cycloalkenylalkyl, heterocycloalkyl or substituted cycloalkenylalkyl, heterocycloalkyl or substituted aryl arylalkyl or substituted arylalkyl, halo, CN, OR¹, nitro, hydroxylamine, hydroxylamide, amino, NHR⁴, NR²R⁵, NOR¹, thiol, alkylthio or substituted alkylthio, R¹C=O, R¹(C=O)O, R¹OC=O, R¹NHC=O, SO₂R¹, SOR¹, PO₃R¹R¹′, R¹R¹′NC=O, C=OSR¹, I[SO₂R¹,][SO₂OR¹, or SO₂NR¹R¹′:

comprising the steps of contacting a compound of the following formula XV, or salt thereof:

$$G \stackrel{L}{\longrightarrow} N \stackrel{Z_2}{\longrightarrow} A_1 \stackrel{X}{\longrightarrow} A_1$$

$$Z_1 \stackrel{Q_2}{\longrightarrow} A_1$$

$$XV$$

where the symbols are as defined above;

with an enzyme or microorganism capable of catalyzing the hydroxylation of said compound XV to said compound XVI, and effecting said hydroxylation.

- Claim 2. (CANCELED)
- Claim 3. (ORIGINAL) The method of claim 1 wherein a microorganism is incubated with the compound of formula XV to effect the hydroxylation.
- Claim 4. (ORIGINAL) The method of claim 1 wherein the reaction mixture, after hydroxylation, is separated by chiral HPLC.
- Claim 5. (PREVIOUSLY PRESENTED) The method of claim 1 wherein R⁷ is alkyl or substituted alkyl; L is a bond; and G is selected from the group consisting of:

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